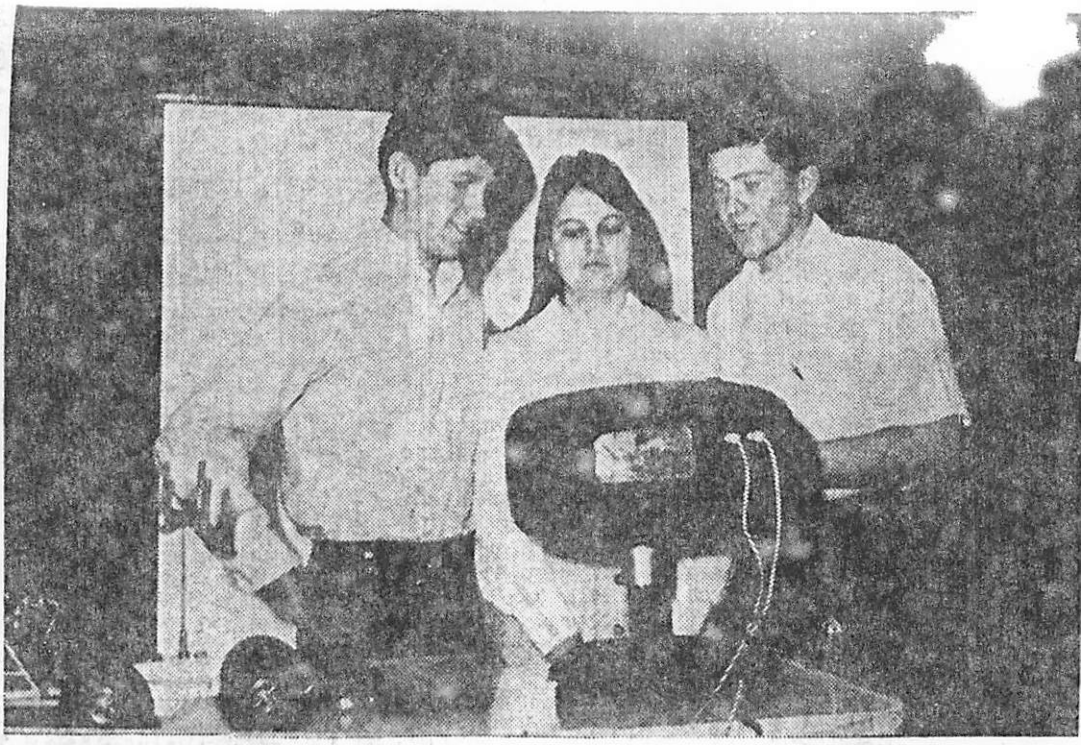
Ambulance Drivers
and EMTs



STRANGE PATTERNS— A laser beam which translates sounds into patterns of light is studied by Wasatch Senior High students Annette Allred, Dave McGuire and Kim Witt. Lasers have already been used in the drilling of hard materials and in various types of surgery. The laser beam was one of nine Science-in-Action demonstrations in the General Motors stage show "Previews of Progress which appeared at Wasatch Senior High

'Parade of Progress'

5 Feb 1970

"The world we live in today is merely a stepping stone to tomorrow, with countless challenging questions left for scientists and engineers to answer."

That message of opportunity was presented to local students when General Motors research-in-action stage show, "Previews of Progress", appeared at Wasatch Senior High School on Thursday, January 29, 1970, at 9:30 a. m.

THE NON-COMMERCIAL show seeks to encourage more student interest in science and engineering careers. It was presented in non-technical language by General Motors lecturers.

A highlight of the 40-minute program was the Moon Rover, a 15-inch model of the General Motors Surveyor Lunar Roving Vehicle. The Rover runs on sunlight and has eight button-like cells which convert the energy in sunlight into electricity. A 300-watt lamp, simulating the sun's rays, powered the vehicle across an undulating table top surface.

THE GM REPRESENTAtives explained how the Moon Rover demonstrates the potential of the continuing search for new ways to harnness the tremendous energy of the sun for more efficient use.

Students also saw an alternate means of energy for lunar vehicles when during the show the lecturer made three fuel cells which converted chemical energy into electricity. The small fuel cells made with chemicals in paper cup size containers provided enough power to run the Moon Rover.

THE FUEL CELL — a highly efficient energy conversion device — is subject of continuing intensive research, the Previews lecturer said. They told students GM has developed a full-sized experimental vehicle to demonstrate the technical feasibility of electris propulsion by fuel cells.

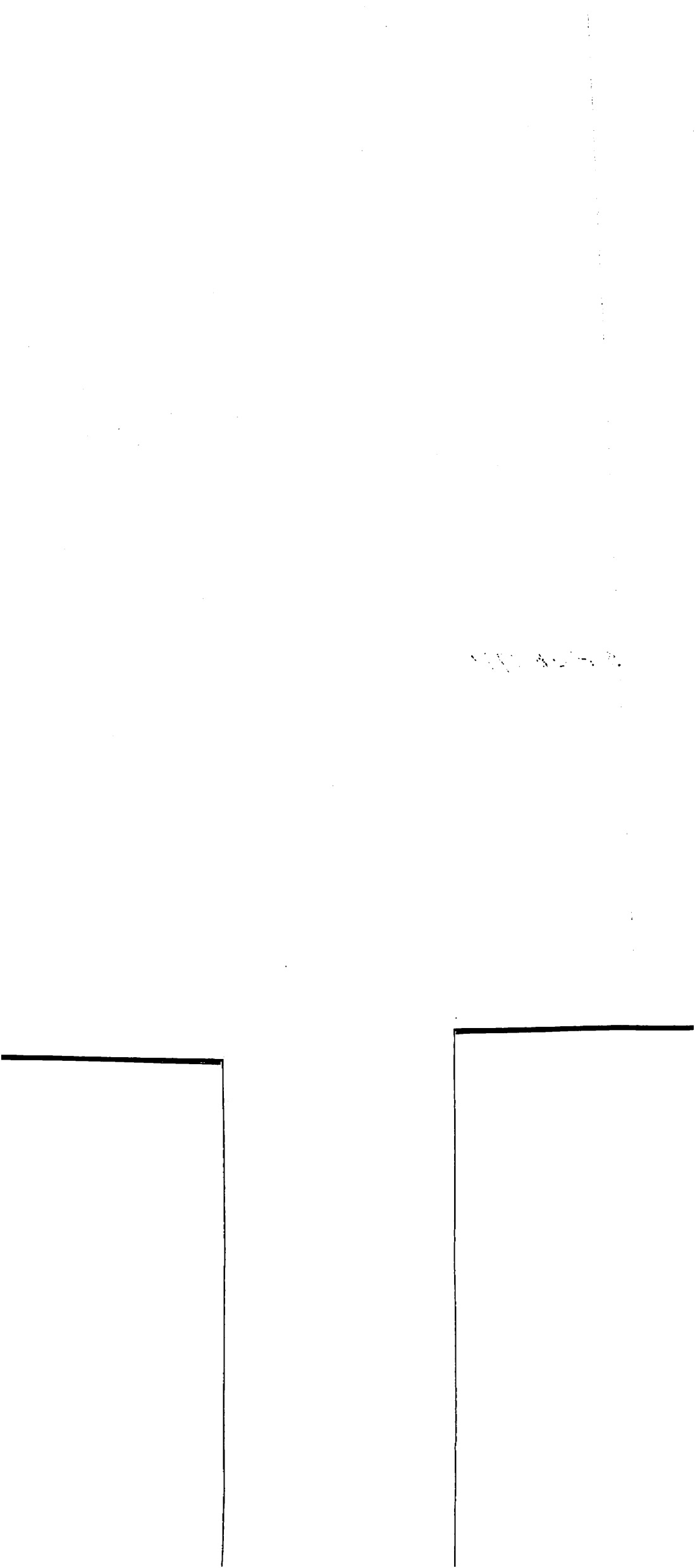
A unique way to move heavy loads with little physical effort was illustrated by an "air bearing" platform. A small vacuum cleaner motor provided a thin film of air under three large circular pads supporting the platform. This air-cushion reduced friction between the floor and the pads enabling finger-tip movement of the platform carrying about 200 pounds.

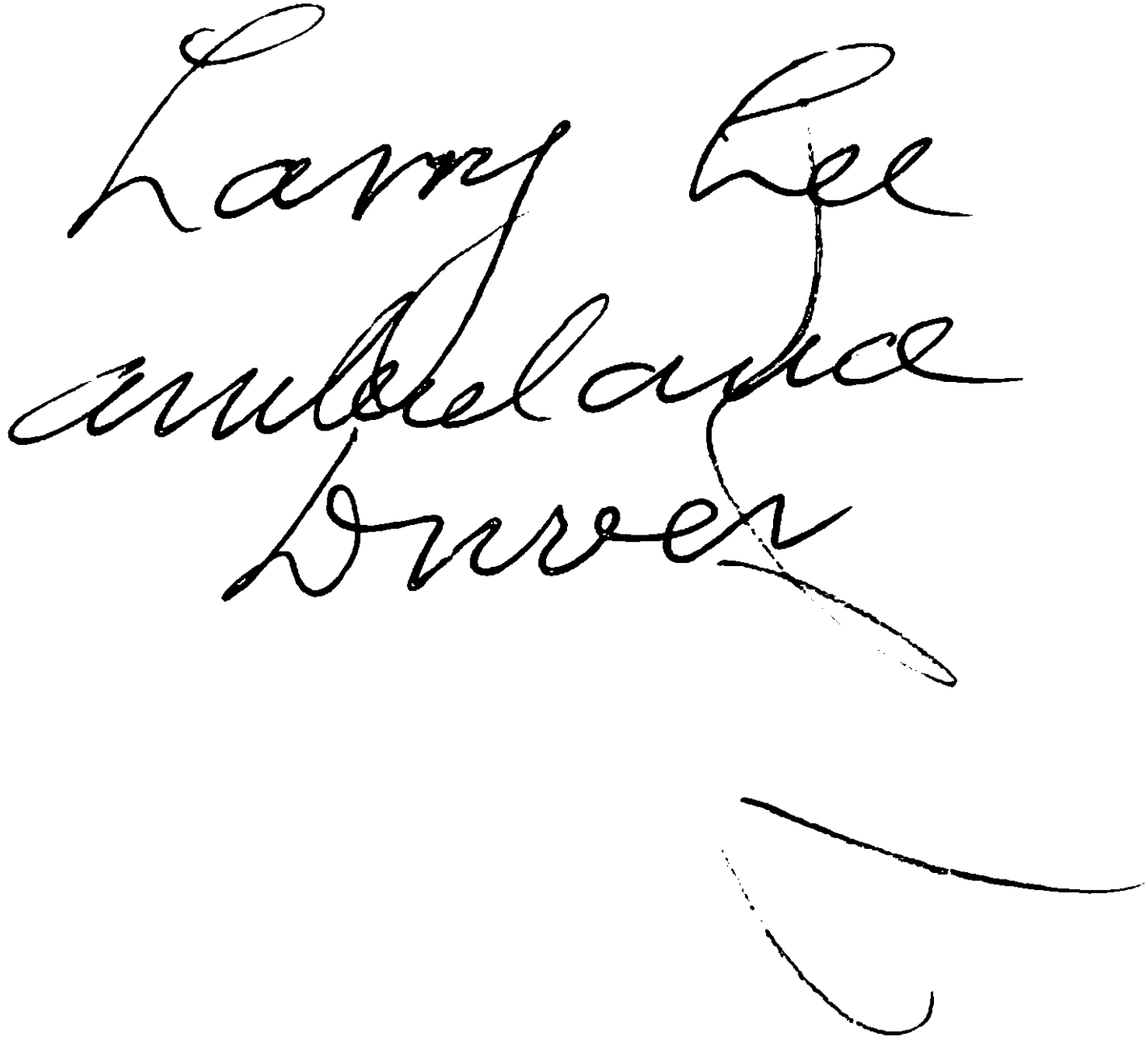
TWO NOVEL experiments involving "man-made" molecules showed modern chemistry's contribution to progress. Synthetic rubber was manufactured in a bottle in just sixty seconds and a foam plastic cake "baked" itself in only two-minutes.

The importance of seat bel protection for vehicle occupant was dramatized by a model im pact sled, a device automotive safety engineers have been us ing to test the structural integ rity of car bodies and compon ents.

Other demonstrations in the Previews show covered the use of gyroscopes in modern navigation systems for space vehicles, aircraft and submarines and an explanation of how a gas turbine engine operates.

The Previews team that appeared here is one of seven two-man units now touring the country. About 1,500,000 students and adults will see Previews this year.






TURE IN MOVING